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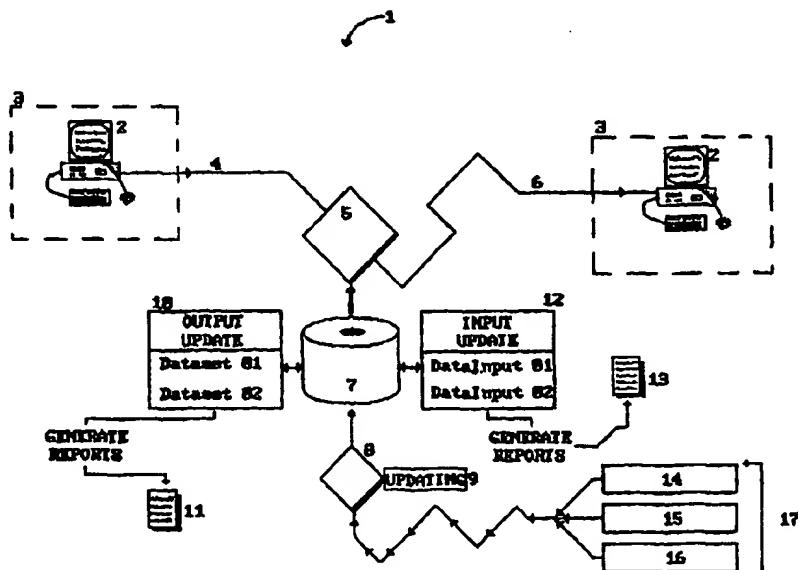
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(54) Title: INFORMATION NETWORK SEARCH ENGINE



(57) Abstract

This present invention relates to a search engine as well as a method of, and system for the searching for a selected product or product group and for generating response data for purposes of serving the request. More specifically it relates to a search engine generally operable by means of a web based browser which provides for communication means to a hosted searching service on a computer network of a service provider connected or connectable to Information Network. Also the invention allows users to locate and obtain information on one or more products registered on one or more databases on an Information Networks such as Internet.

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## INFORMATION NETWORK SEARCH ENGINE

### TECHNICAL FIELD

This invention relates to a search engine as well as a method of, and system for the searching for a selected product or product group and for generating response data for purposes of serving the request. More specifically it relates to a search engine generally 5 operable by means of a web based browser which provides for communication means to a hosted searching service on a computer network of a service provider connected or connectable to a Information Network. Furthermore the invention allows users to locate and obtain information on one or more products registered on one or more databases on an Information Networks such as the Internet.

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### BACKGROUND ART

With the introduction of access to the Internet by the public and the subsequent rapid development and growth into Internet Commerce many people has required companies to develop search engines to allocate and generate reports for the searching of specific 15 information or data required. Subsequently the growth of web sites has rendered standard search engines ineffective due to the large amount of references obtained which in most cases does not have any relation with the users request. Also E-commerce and the utilization of the WWW for commercial research has created the need for a specific search

engine for locating and finding products required by a user

### OBJECTIVES OF THE INVENTION

Accordingly it is an object of the present invention to provide a search engine and a  
5 method and system for searching for products on the World Wide Web with regard to certain predefined constraints and to generate and communicate intelligent response data to the user with said data associated with a product required by the user. The method and system allows users to search intelligently through one or more databases and to obtain information and data in which the applicant believes that disadvantages of other search  
10 engines may at least be alleviated

Furthermore it is an object of the present invention to provide a method of and system for searching an information network for a specific product case sensitively in relation to the product identity or category, location and price , and which the applicant believes  
15 disadvantages of known search engines may at least be alleviated. In particular the invention provides significant benefits as follows:

- Users that search information networks such as the Internet for products need not use general or global search engines to identify and locate a specific product ; but  
20 can now do a case sensitive search on the identity , location and price of the

product to obtain reference information for further use. The search engine is configured to file each product identity with its class or subclass; thereby allowing users to make easy selection and identification of a required product. Furthermore response data generated will be more accurate and provide reference detail about 5 the product, including one or more of the following; contact information, hypertext links naming but a few;

- Vendors and product advertises benefit in that they are assured that information about their products are more accessible and that search results will be more accurate; thereby benefiting their business. Furthermore reference detail allows 10 users to be directed to them either via the network or via contact information and/or address reference associated with the users required products.
- Service providers benefit in that the search engines allows more customers 15 (Vendors and Advertisers) to use their services i.e. database management and web hosting because contacts or sales leads will be more accurate and reliable.

## DISCLOSURE OF INVENTION

According to the 1<sup>st</sup> aspect of the invention there is included a method of searching for a product electronically including the steps of:

5        - providing an electronic network including at least one data terminal at a user base, at least one computer network of a service provider and at least one database including details of available products.

          - on the system generating a first data input request relating to the identity of a product requested, generating a second data input request relating to the location of a product requested and generating a third data input request relating to the price of a product requested;

10      - processing the first, second and third data input request on a computer network of a service provider and comparing the product request data-sets in relation to available products registered in at least one database;

15      - generating at least one response data or message including the results of the search with detail of the products associated database; and

          - communicating the response data or message to the user in response to the request.

20 According to the 2<sup>nd</sup> aspect of the invention, the electronic network may include a browser

based software application with encryption and/or decryption capabilities and communication means to compile user request information and forward them to a computer network of a service provider.

5 According to the 3<sup>rd</sup> aspect of the invention, the search engine may include means to display and communicate information interactively with the requested information.

According to the 4<sup>th</sup> aspect of the invention the user may include any one or more of: a person, organisation, company, non-profit organisation or the like

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According to the 5<sup>th</sup> aspect of the invention the user may input the product request information via a network device or remote terminal such as a PC and a web browser used for displaying and communicating interactively with the computer network.

15 According to the 6<sup>th</sup> aspect of the invention the remote base may include a home or an office preferable located remotely from the database and/or the service provider.

According to the 7<sup>th</sup> aspect of the invention the Information Network may include any one or more of: the Internet, an Extranet, an Intranet, a Virtual Private Network and a computer network of a vendor, service provider or a government network.

According to the 8<sup>th</sup> aspect of the invention the Service provider may include any one or more of: an Internet associated company or firm, a database management network or service, an organisation or a vendor.

- 5 According to the 9<sup>th</sup> aspect of the invention the database may include one or more data containing or storing systems and/or software and/or hardware allowing product and/or product reference details to be accessible via the Information and/or service provider network.
- 10 According to the 10<sup>th</sup> aspect of the invention the identity of a product may include one or more of: the product name, product type, product category and the product nature.

According to the 11<sup>th</sup> aspect of the invention the location of a product may include one or more of: the physical location, the storage location, the commercial or business location,

- 15 the reference date location and a hypertext link

According to the 12<sup>th</sup> aspect of the invention the price of a product may include one or more of: the actual price, the retail price, the estimated price or a price range defined as one or more values between an upper and a lower price limit

According to the 13<sup>th</sup> aspect of the invention the response data may include details of one or more products registered in the database and/or the availability thereof.

According to the 14<sup>th</sup> aspect of the invention there is provided a search engine for  
5 generating response data with regard to a product required by a user, the search engine including a method for generating and processing a user request from a remote base , said user request relating to a product on an information network and said information network including a computer network of a service provider with at least one database with available products, the method including the steps of:

10        – generating a first data input request relating to the identity of a product requested;

          – generating a second data input request relating to the location of a product requested;

          – generating a third data input request relating to the price of a product requested;

15        – processing the first, second and third data input request on a computer network of a service provider and comparing the product request data-sets in relation to available products registered in at least one database;

          – generating at least one response data or message including the results of the search with detail of the products associated database; and

20

- communicating the response data or message to the user in response to the request.

According to the 15<sup>th</sup> aspect of the invention, the search engine may include a browser  
5 based software application with encryption and/or decryption capabilities and communication means to compile user request information and forward them to a computer network of a service provider.

According to the 16<sup>th</sup> aspect of the invention there is included a system for searching for  
10 a product electronically the system comprising:

- an electronic network including at least one data terminal at a user base, at least one computer network of a service provider and at least one database including details of available products.
- means for generating on the system a first data input request relating to the  
15 identity of a product requested, generating a second data input request relating to the location of a product requested and generating a third data input request relating to the price of a product requested;
- processing means for processing the first, second and third data input request on a computer network of a service provider and comparing the  
20 product request data-sets in relation to available products registered in at

least one database;

- means for generating at least one response data or message including the results of the search with detail of the products associated database; and
- system software for communicating request and response data or message to and from the user in response to the request or response message.

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According to the 17<sup>th</sup> aspect of the invention there is provided a search engine for generating response data with regard to a product required by a user, the search engine including a system for generating and processing a user request from a remote base , said  
10 user request relating to a product on an information network and said information network including a computer network of a service provider with at least one database with available products, the system comprising:

- a computer network wit at lease one database and a user data terminal;
- means for generating a first data input request relating to the identity of a  
15 product requested;
- means for generating a second data input request relating to the location of a product requested;
- means for generating a third data input request relating to the price of a product requested;
- 20 - means for processing the first, second and third data input request on a

computer network of a service provider and comparing the product request data-sets in relation to available products registered in at least one database;

- means for generating at least one response data or message including the results of the search with detail of the products associated database; and
- 5 - system software for communicating request and response data or message to and from the user in response to the request or response message.

According to the 18<sup>th</sup> aspect of the invention there is included a method of programming a computer it means steps of:

- 10 - providing a programmable computer;
- storing a predetermined computer program on the storage capability of the computer , the program being capable of causing a body of data to be inspected for data comprises a set of pre-selected variables;
- causing a pre-selection set of variables to be entered into the computer
- 15 and received by the computer program;
- causing the pre-selected variables to be processed by the pre-programmed computer relative to the database for matching variable; and
- causing the computer to display matched variables in identified in the database

20

According to the 19<sup>th</sup> aspect of the invention the computer may be interconnected to at least one other computer comprising at least one database to be inspected, the combination being such that the pre-selected variable can be entered at the first computer , the program processing such information and accessing the database at the other or second computer  
5 , and the matched data returned to the first computer , for display purposes

The first computer may be interconnected to a network of computers.

According to the 20<sup>th</sup> aspect of the invention the variables may comprises a first variable  
10 relating to an identity of a predetermined product; a second variable relating to a location of a predetermined product and a third variable relating to a monetary value of such predetermined product.

Of coarse the computer program may include encryption and decryption capabilities  
15 adapted to process information transmitted to a network encrypted form and to decrypt such information for display purposes.

Also the computer program may comprising the capability to interactively manage information process thereby thought the functioning of the computer associated therewith.

## BRIEF DESCRIPTION OF DRAWINGS

Preferred embodiments of the invention will now be described by means of non-limiting examples only, with reference to the accompanying diagrams wherein:

5

Figure 1: is a block diagram of a first embodiment of the invention including a method of and system for generating a request relating to a product on an information network;

10 Figure 2: is a block diagram which more extensively illustrates the system and method of the invention in particular the search request and response process;

Figure 3: is a schematic illustration of a computer network configuration for receiving and processing a user request relating or associated with a product;

Figure 4: is an example of a network configuration according to the invention;

15 Figure 5: more specifically illustrates the method and system for processing and executing a product request on an Information network;

Figure 6: more extensively shows the contents or data/information subsets of one or more databases connected to the information network

Figure 7: more specifically relates to the process of comparing and associating data input request with available products;

20 Figure 8: is a diagrammatic illustration of multiple product identification or

categories; and

Figure 9 shows an example of independent databases and/or individual search engines where products are not synchronized with search results

## 5

## BEST MODES FOR CARRYING OUT THE INVENTION

Turning to Figure 1, there is shown illustrated according to an embodiment of the invention, a method of and system for (1) generating a request relating to a product on an information network, including providing a network access device or communication terminal (2) i.e. a Personal Computer at a remote base (3) i.e. a home or an office that is connected or connectable to an information network (4') i.e. for communication via the Internet. The user selections regarding the product is processed (5) on a computer network of a service provider with access to at least one database (7) connected to the network.

Furthermore the invention allows updating of the products or product details or product reference information (9) via a communication and updating process (8). Updating may occur from any one or more of: a vendor (14) a service provider (15) and a advertiser or marketing system (16). Furthermore the updating may be executed by the updating parties from a location associated or remote from the database (17). Also included within the scope of the invention, the database and associated computer network of the service provider may by able to generate and summarize output updates (10) including generating

reports (11) on the amount of request received and the frequency of the use as to for example determine the demand for a certain product or product category. This in turn may be used for marketing information relayed to vendors, service providers and advertisers naming but a few. Furthermore Input Updates (12) may be generated and monitored

5 including generating reports (13) on demand for new advertising, product updates and retail market tendencies which may be used to price and market the facility and responses

(6) sent or transmitted to the user at the remote base (3), said response including details of reference information regarding the product.

10 Figure 2 more extensively illustrates the system and method of the invention in particular the search request and response process originating when a user (18) uses a data terminal or PC (19) to access and communicate request data over an information network (20). The request (21) that is transmitted to a computer network of a service provider includes details (22) of any one or more of: the product identity or category, the product location and the

15 product price. The request is compared to a multiple product entries (25) or data stored on a database (24), including different product identification data (26), product location data (27) and prices or price ranges (28). Various data fields are compared to match user request criteria (29) in respect of the available products on one or more databases. The available data or information relating to a product including product reference data may

20 be compiled and used to generate response data or reference (30) that may be

communicated or transmitted (31) to the user (18)

Figure 3 is a schematic illustration of a computer network configuration for receiving and processing a user request relating or associated with a product at a remote user base i.e.

- 5 a home or an office from a network device (34) (*i.e. a PC*) on a computer network of a service provider (35) via a Point of Presence (*POP*) (36) which in turn is connected or linked (37) with the Internet (38) directly or via Intranet (39) or Extranet (40) connection. Connected to the Internet may be a computer network of a service provider (41) that has one or more databases connected to it (42). Alternatively the database (43, 44, 45, and 49)
- 10 may be connected or linked directly to the Internet; said databases containing information or data relating to or associated with a product required by a user in terms of: Product ID (46), Product Location (47) and Product price range (48). In another embedment the database (50) may be held by a database Administrator (51) which may specialize or focus on hosting information for purposes of the search engine.

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Figure 4 is an extended example of a network configuration where users (53, 56 and 58)) may gain or obtain access to an information network via one or more of the following ways: via Dail-up network (54), via Intranet Network (55) or via Extranet Network (57) that may have direct link or communication (60) into an international (63)

- 20 WWW connection or link/connection (61) to a local WWW connection (62). One or more

service providers (64) may link directly into the international communication network with at least one database (65). Alternatively the service provider (66) may link into the local or regional network with the database (67). In yet another embedment the service provider(s) (69, 72 and 75) and corresponding database (70, 73 and 76) may link to the 5 network via a supporting or sub-network (68, 71 and 74). Furthermore other networks may also have link or communication with the main network (62 and 63)

Figure 5 more specifically illustrates the method and system (78) for processing and executing a product request from a user (79) on an Information network (80) for 10 generating a request (81) on the network from where it is processed (82) or communicated to a Database Search Engine (83) or directly to evaluate and associate one or more of the following: the Product Identity (84), the Product Location (86) and the Product price or price range (88), with their corresponding categories and price ranges respectively (85, 87 and (89). Search results may be completed and communicated to the networks (90) for 15 generating a response to the user request.. Alternatively the database search engine (83) may via a network link (92) be able to integrate (93) or associate (94) with the request and results communicated (91) to the user.

Figure 6 more extensively shows the contents or data/information subsets of one or more 20 databases (95) connected to the information network and/or to the computer network of

a service provider (*host*). The first data set may relate to the Product Type or Category (96) which may include an alphabetical list of pre-stored product identities . A second data set by relate or be associated with a product location (97) which may be a pre-arranged list that may operate from a top-down approach starting with the macro 5 environment i.e. country, state or province. The third data set may relate or be associated with a product price or product price range (98) which is indicated by a selection including a minimum and maximum value. Also the price may be associated with a currency value determined by the country where the product may be located.

For illustrative purposes the product request identity may be associate with aviation , the 10 location Aberdeen (99) and the currency SA Rand (100) specified to a value i.e. R 50- R100. Should a user request (101) relate to cigars (102) in location Johannesburg (103) to the value or price (104) of between R 100 and R 200, the response data (105) may include a summary of the selections and/or reference to the product i.e. a telephone or fax number and/or an addressed where they or it can be found. Should a user request the exact 15 same product and location but with another price range (110) a different response signal (111) ,may be generated with different reference information, except if the product on offer is at the same location or place at a different rate i.e. different brands may have different prices. Another user request (106) may relate to computers (107) in Randburg (108) with a value or price range from R 5000 to R 10000 (109) with a response signal 20 or message (112) with reference information i.e. an address, telephone number etc.

Figure 7 more specifically relates to the process of comparing and associating data input request with available products (113). The method and system more extensively comprising of a request (122) a comparing associating engine (123) and a dataset of available products (124). User request or enquiries (114) are processed and evaluated in 5 terms of product identity (115), product location (116) an product pricing or price range (117). The completed request may be compared and/or processed (118) in terms of available products (119), active locations (120) and available prices (121). The qualified selections with corresponding reference information (125) may be processed, compiled and generated to a response signal or message (127) that is communicated (128) to the user 10 (129).

Figure 8 is a diagrammatic illustration of multiple product identification or categories (130) where product request dataset options (131) may be classified as user product request databases (132) relating to identity, location and price each with its own reference 15 or commercial identification database or dataset (133) and or information network identification (134) (www address). Furthermore the databases may hold multiple product classes with multiple items (135) i.e. wine or multiple classification (136 and 137) which are both vehicles. Furthermore multiple database entries (138) may bear resemblance in both identity (143) and cost (144) but different locations and Internet addresses (139). 20 Alternatively the product identity and location may be same for a single request (140) but

differ in price (145); but therefor different reference information (146). Also a product may be alone in its class or identity without corresponding references i.e. a specific address but rather the store or franchise identity (141)

- 5   Figure 9 shows an example of independent databases and/or individual search engines where products are not synchronized with search results. The method and/or system (147) includes users (148) at home base to input and execute a search request (149) for a certain product. The request is processed (150) and activates one or more independent searches relating to one or more of: the product identity (151), the product location (152) and the
- 10   product price/range (153) which launches multiple database searches (154), (155) and (156) respectively. Each set of search results may be communicated and transmitted (157), (158) and (159) to generate independent search results (160) which may be compiled and communicated (161) to a user (162).

## CLAIMS

1. A method of searching for a product electronically including the steps of:
  - 5      - providing an electronic network including at least one data terminal at a user base, at least one computer network of a service provider and at least one database including details of available products.
  - on the system generating a first data input request relating to the identity of a product requested, generating a second data input request relating to the location of a product requested and generating a third data input request relating to the price of a product requested;
  - processing the first, second and third data input request on a computer network of a service provider and comparing the product request data-sets in relation to available products registered in at least one database;
  - 10     - generating at least one response data or message including the results of the search with detail of the products associated database; and
  - communicating the response data or message to the user in response to the request.
- 20 2. A method as claimed in claim 1 wherein the electronic network includes a browser

based software application with encryption and/or decryption capabilities and communication means to compile user request information and forward them to a computer network of a service provider.

- 5 3. A method as claimed in claim 1 wherein the browser based software application is a search engine including means to display and communicate information interactively with the requested information.
4. A method as claimed in claim 1 wherein the user includes any one or more of: a  
10 person, organisation, company, non-profit organisation or the like
5. A method as claimed in claim 1 wherein the user inputs the product request information via a network device or remote terminal such as a PC and a web browser used for displaying and communicating interactively with the computer  
15 network.
6. A method as claimed in claim 1 wherein the remote base includes a home or an office preferable located remotely from the database or the service provider
- 20 7. A method as claimed in claim 1 wherein the Information Network includes any

one or more of: the Internet, an Extranet, an Intranet, a Virtual Private Network and a computer network of a vendor, service provider or a government network.

8. A method as claimed in claim 1 wherein the Service provider includes any one or  
5 more of: an Internet associated company or firm, a database management network or service, an organisation or a vendor.
9. A method as claimed in claim 1 wherein the database includes one or more data containing or storing systems or software or hardware allowing product or product  
10 reference details to be accessible via the Information Network or service provider network.
10. A method as claimed in claim 1 wherein the identity of a product includes one or more of: the product name, product type, product category and the product nature.  
15
11. A method as claimed in claim 1 wherein the location of a product includes one or more of: the physical location, the storage location, the commercial or business location, the reference date location and a hypertext link
- 20 12. A method as claimed in claim 1 wherein the price of a product includes one or

more of: the actual price, the retail price, the estimated price or a price range defined as one or more values between an upper and a lower price limit

13. A method as claimed in claim 1 wherein the response data includes details of one  
5 or more products registered in the database or the availability thereof.
14. A Search Engine for generating response data with regard to a product required by a user, the search engine including a method for generating and processing a user request from a remote base, said user request relating to a product on an information network and said information network including a computer network 10 of a service provider with at least one database with available products, the method including the steps of:
  - generating a first data input request relating to the identity of a product requested;
  - 15 - generating a second data input request relating to the location of a product requested;
  - generating a third data input request relating to the price of a product requested;
  - processing the first, second and third data input request on a computer;
  - 20 - processing the first, second and third data input request on a computer

network of a service provider and comparing the product request data-sets in relation to available products registered in at least one database;

- generating at least one response data or message including the results of the search with detail of the products associated database; and
- 5 - communicating the response data or message to the user in response to the request.

15. A method as claimed in claim 14 wherein the search engine includes a browser based software application with encryption and decryption capabilities and communication means to compile user request information and forward them to a computer network of a service provider.

10

16. A method of programming a computer it means steps of:

- providing a programmable computer;
- 15 - storing a predetermined computer program on the storage capability of the computer , the program being capable of causing a body of data to be inspected for data comprises a set of pre-selected variables;
- causing a pre-selection set of variables to be entered into the computer and received by the computer program;
- 20 - causing the pre-selected variables to be processed by the pre-programmed computer

relative to the database for matching variable; and

- causing the computer to display matched variables identified in the database

5 17. A method as claimed in claim 16 in which the computer is interconnected to at least one other computer comprising at least one database to be inspected, the combination being such that the pre-selected variable can be entered at the first computer , the program processing such information and accessing the database at the other or second computer , and the matched data returned to the first computer  
10 , for display purposes.

18. A method as claimed in any one of the preceding claims in which the first computer is interconnected to a network of computers.

15 19. A method as claimed in any of the preceding claims in which the variables comprises a first variable relating to an identity of a predetermined product; a second variable relating to a location of a predetermined product and a third variable relating to a monetary value of such predetermined product.

20 20. A method as claimed in any of the preceding claims in which the computer

program includes encryption and decryption capabilities adapted to process information transmitted to a network encrypted form and to decrypt such information for display purposes.

5 21. A computer program as claimed in one of the preceding claims comprising a capability to interactively manage information process thereby thought the functioning of the computer associated therewith.

22. A system for searching for a product electronically the system comprising:

10        – an electronic network including at least one data terminal at a user base, at least one computer network of a service provider and at least one database including details of available products.

15        – means for generating on the system a first data input request relating to the identity of a product requested, generating a second data input request relating to the location of a product requested and generating a third data input request relating to the price of a product requested;

20        – processing means for processing the first, second and third data input request on a computer network of a service provider and comparing the product request data-sets in relation to available products registered in at least one database;

- means for generating at least one response data or message including the results of the search with detail of the products associated database; and
- system software for communicating request and response data or message to and from the user in response to the request or response message.

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23. A Search Engine for generating response data with regard to a product required by a user, the search engine including a system for generating and processing a user request from a remote base , said user request relating to a product on an information network and said information network including a computer network of a service provider with at least one database with available products, the system comprising:

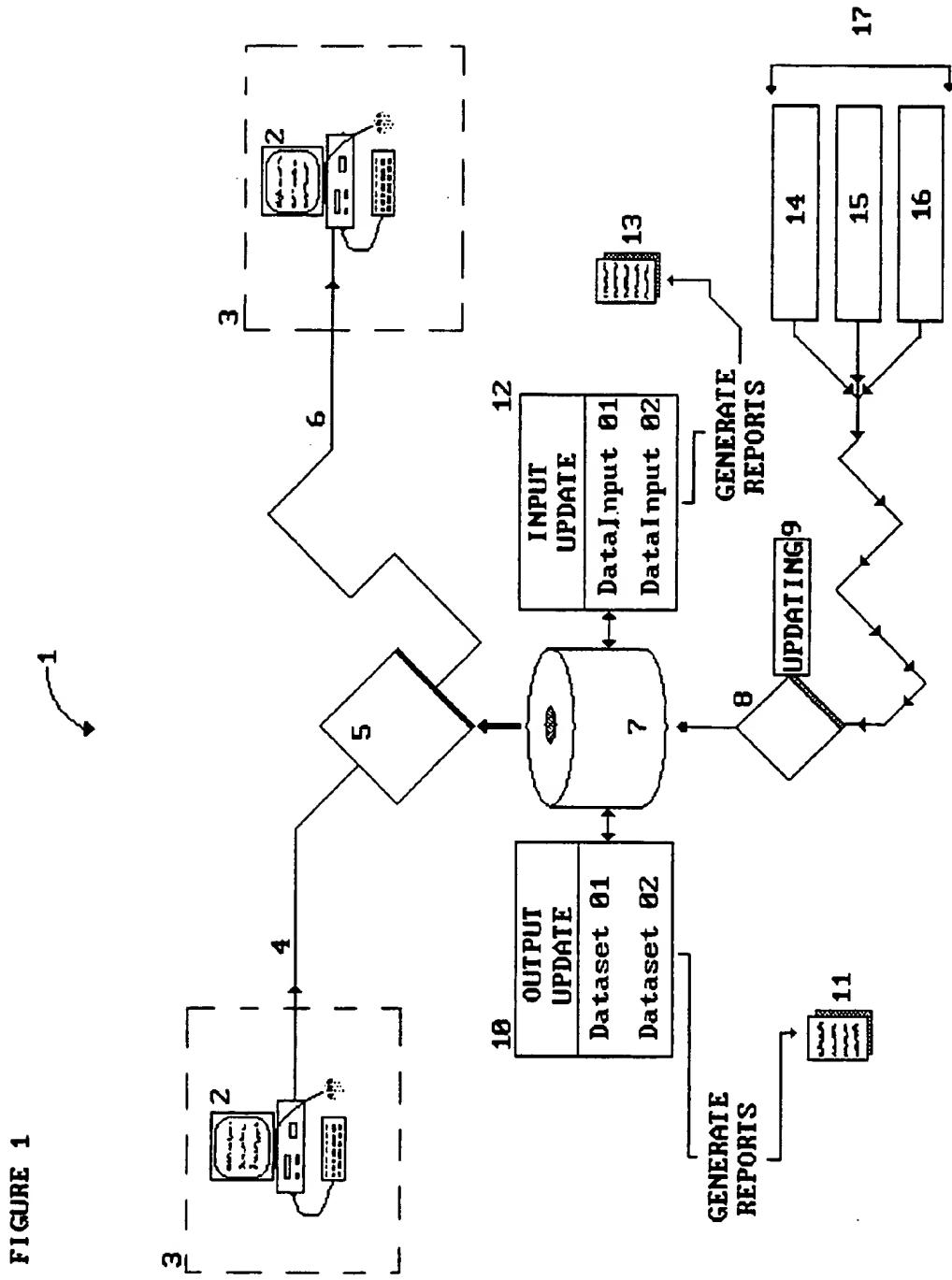
- a computer network wit at lease one database and a user data terminal;
- means for generating a first data input request relating to the identity of aproduct requested;
- means for generating a second data input request relating to the location of a product requested;
- means for generating a third data input request relating to the price of a product requested;
- means for processing the first, second and third data input request on a computer network of a service provider and comparing the product request

data-sets in relation to available products registered in at least one database;

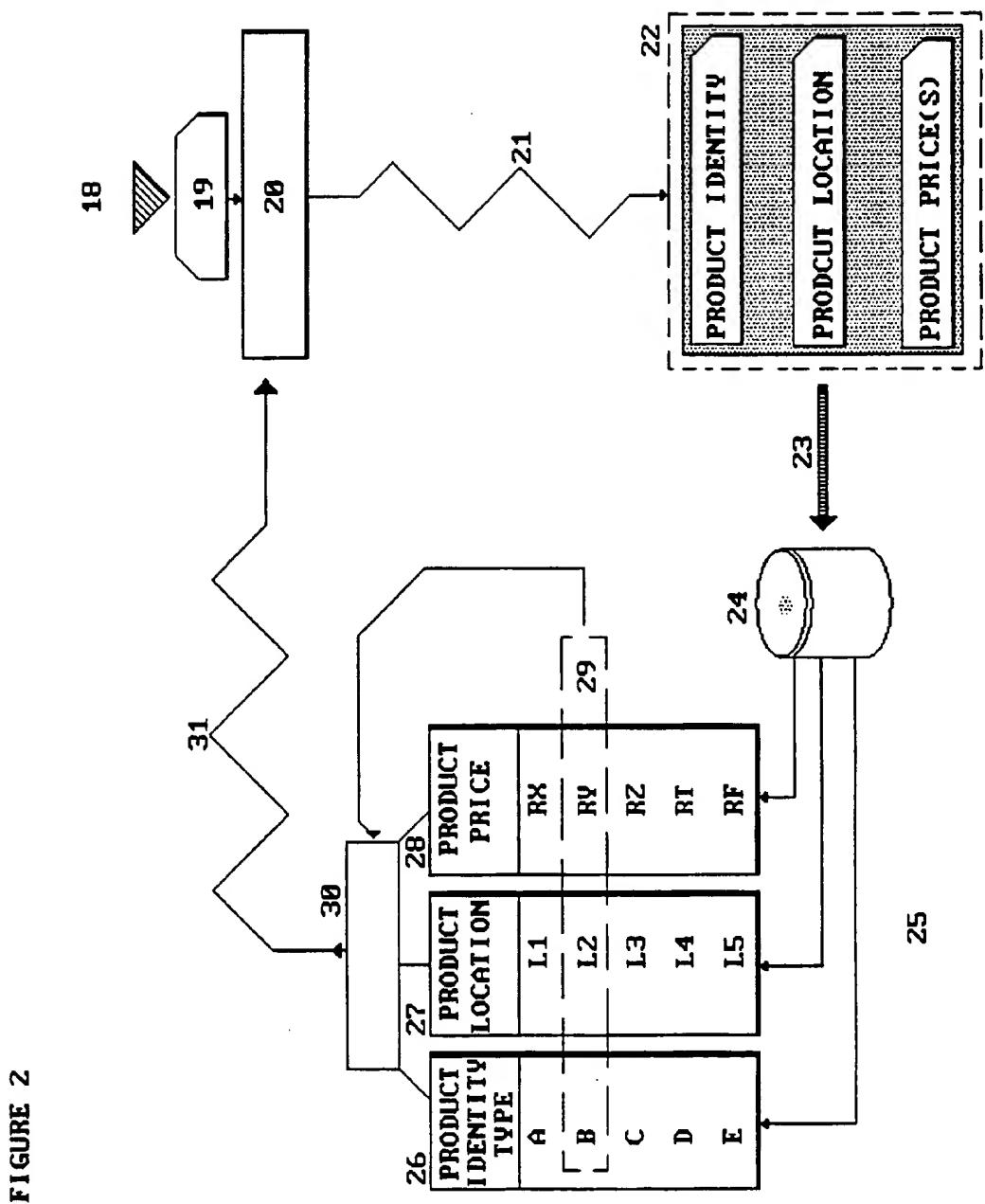
- means for generating at least one response data or message including the results of the search with detail of the products associated database; and
- system software for communicating request and response data or message to and from the user in response to the request or response message.

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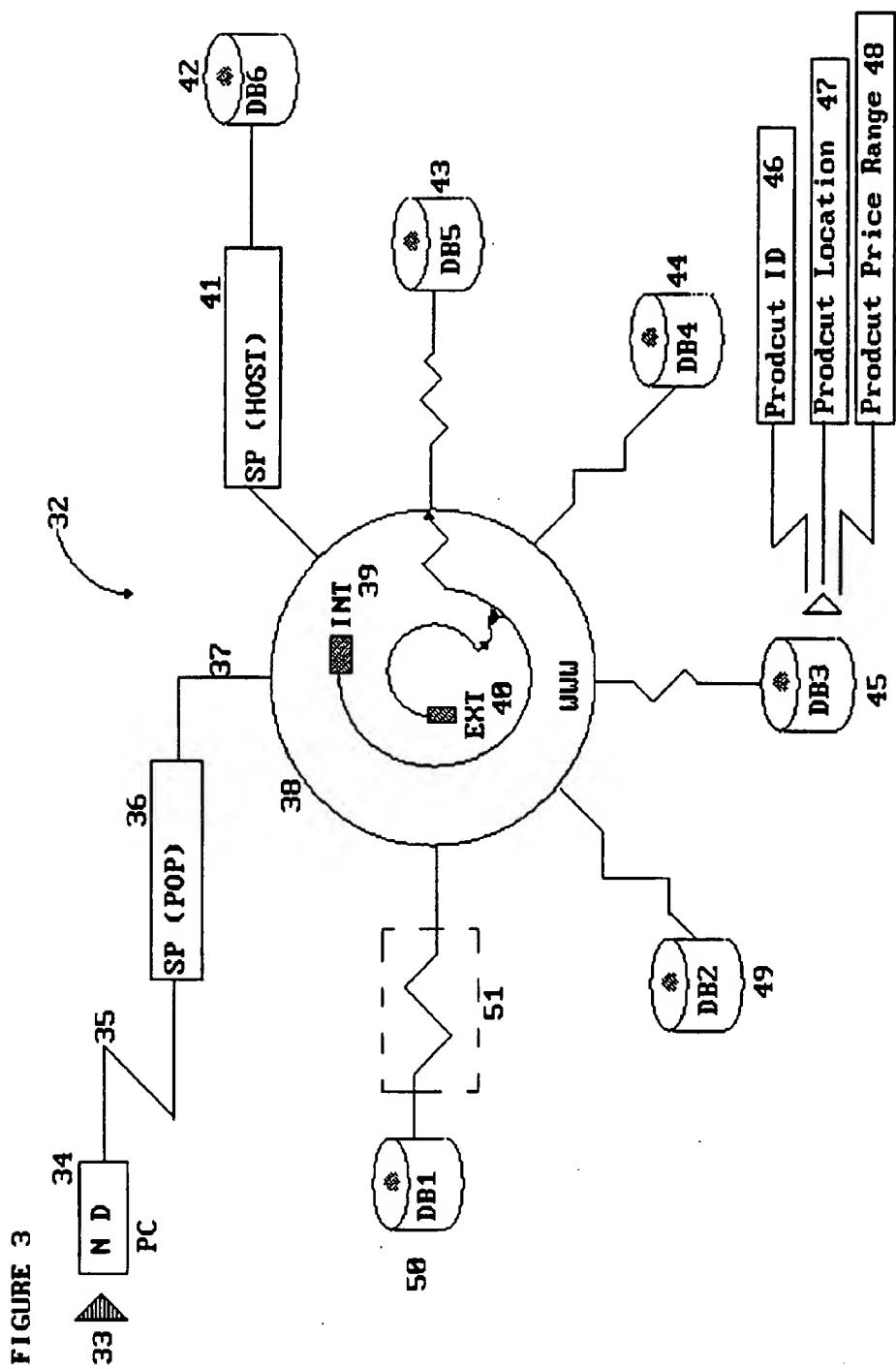
1/9



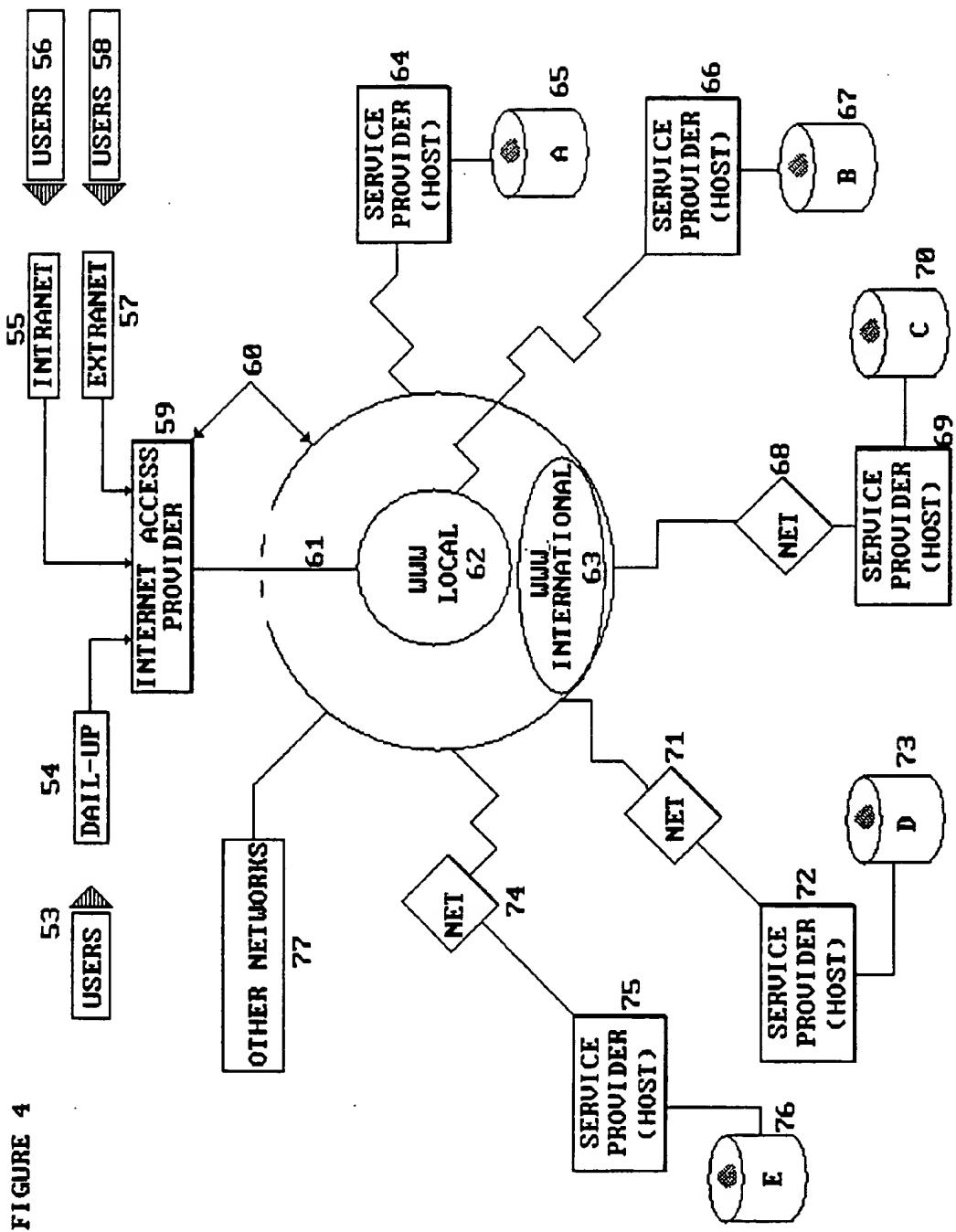
2/9



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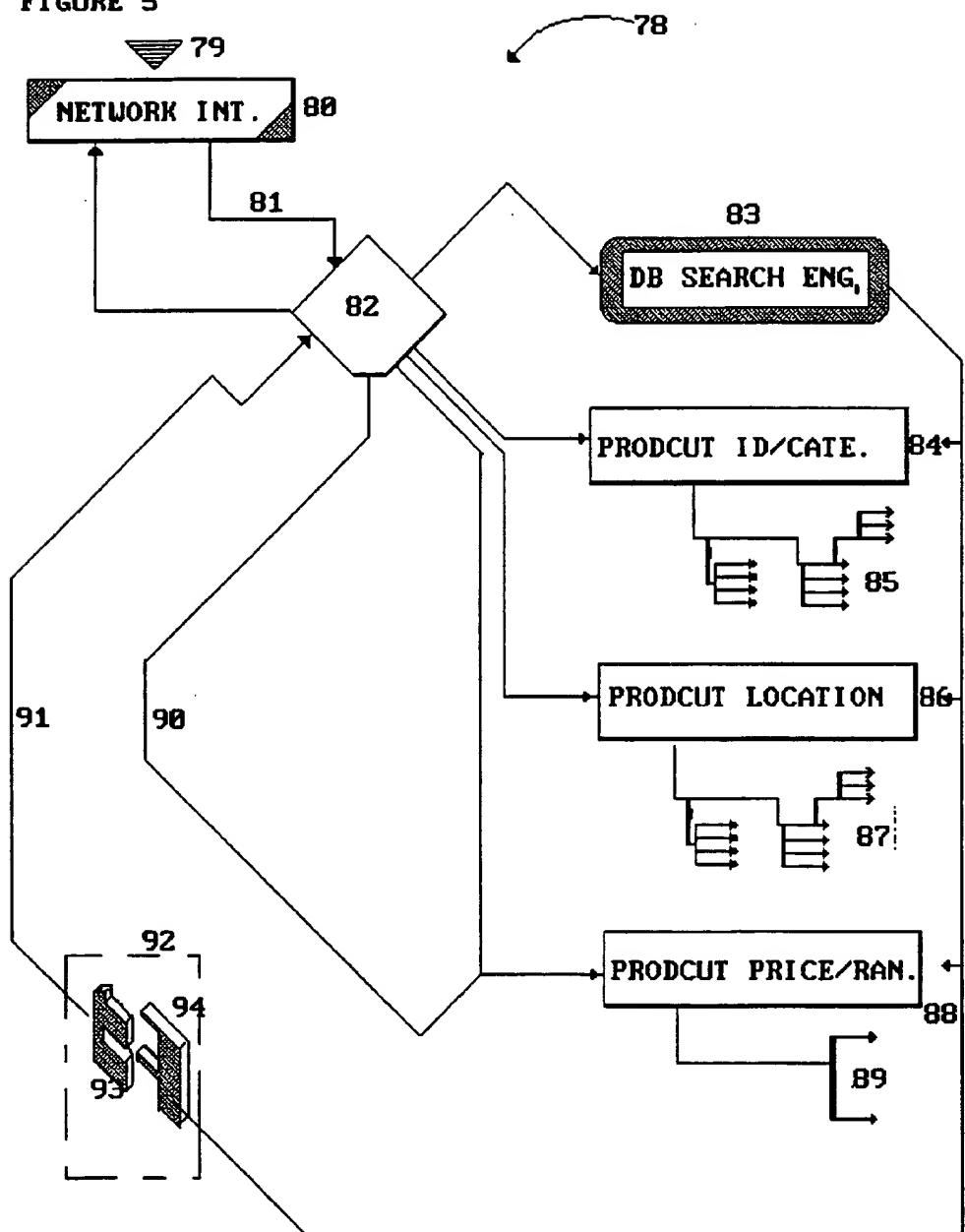


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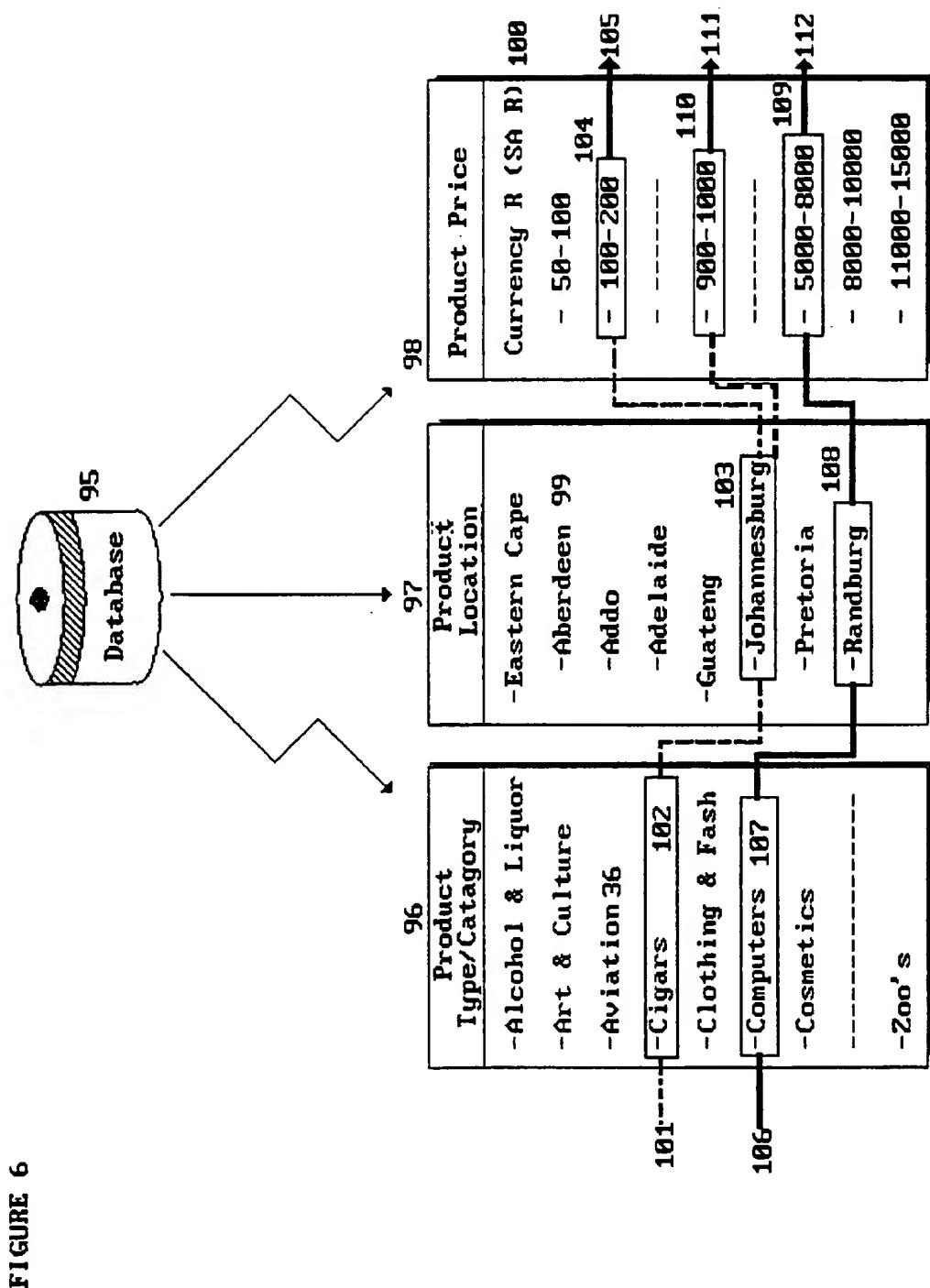


5/9

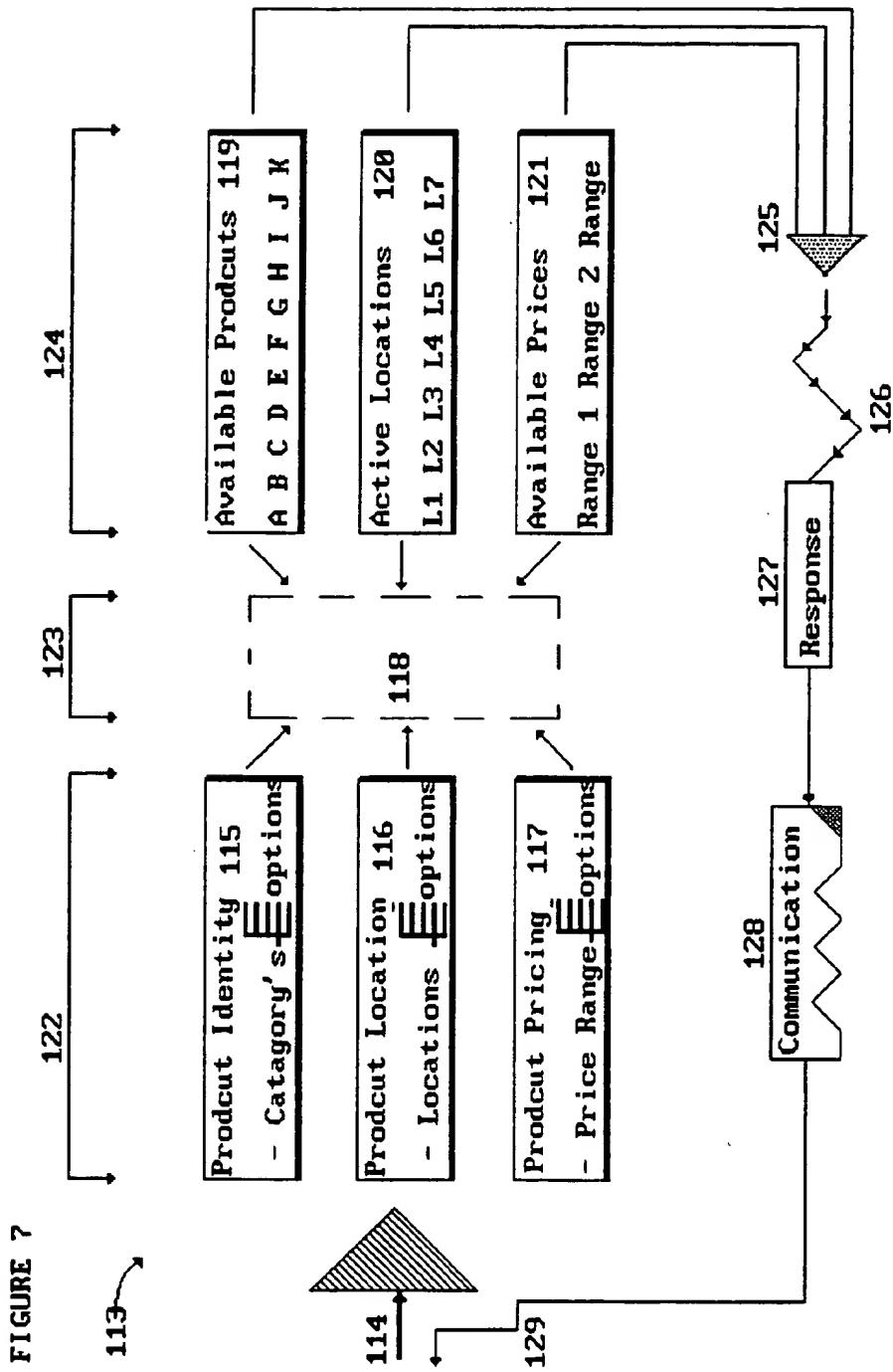
FIGURE 5



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FIGURE 8

131	DATABASE ENTRIES			132
OPTIONS	PRODUCT	LOCATION	PRICE	
135	WINE	E-CAPE	R5-R10	
	WINE	JHB	R5-10	
			142	
136	BMW	DUR	R 50000	
137	MERC	CIN	R 50000	
			144	
	PC	JBN	R 5000	
	PC	PTN	R 5000	
			143	
138	PRINTER	PTN	R 1200	
	PRINTER	PTN	R 145	
			R 1300	
140	TYRES	CIN	R 450	
141				

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134	CONTACT/REFERENCE INFO			133
	TEL	FAX	ADRESS	WWW. ADDRESS
	32332	3444	PAARLHOUSE	WINE&PAARL.CO.ZA
	35994	4992	WINEHOUSE	WINEHOUSE.NET
				AUTOPIX
				MERCBAUTO.NET
				99893 1223 PCLAND
				01233 9998 MECER
				139 MECER.CO.ZA
				98998 8899 HP-MART
				23212 3232 PRINTERHOUSE
				146
				2321 1222 TIGER W&T

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**FIGURE 9**